

PTO/SB/08a (02-09)

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/661,400
		Filing Date	September 12, 2003
		First Named Inventor	
		Art Unit	3774
		Examiner Name	Paul B. Prebilit
Sheet	1	of	11
		Attorney Docket Number	026322-002910US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	116	EP	1 530 600	B1	05-18-2005	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>
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	118	GB	1 569 707		06-18-1980	ICI LTD		<input type="checkbox"/>
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	121	WO	95/13764		05-26-1995	CIBA GEIGY AG		<input type="checkbox"/>
	122	WO	96/03267		01-29-1998	ELECTROSOLS LTD		<input type="checkbox"/>
	123	WO	00/35524		06-22-2000	ELECTROSOLS LTD		<input type="checkbox"/>
	124	WO	00/67694		11-16-2000	MEDTRONIC, INC.		<input type="checkbox"/>
	125	WO	02/092142		11-21-2002	ELECTROSOLS LTD		<input type="checkbox"/>
	126	WO	02/092142	A3	11-21-2002	ELECTROSOLS LTD		<input type="checkbox"/>
	127	WO	2004/024035		03-25-2004	OCULAR SCIENCES, INC.		<input type="checkbox"/>
	128	WO	2004/028356		04-08-2004	BAUSCH & LOMB		<input type="checkbox"/>
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		Country Code ²	Number ³	Kind Code ⁴ (if known)		
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	135	WO	2006/015490		02-16-2006	OTTAWA HEALTH RESEARCH INSTITUTE
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	168	KHADEM et al., "Healing of perforating rat corneal incisions closed with photodynamic laser-activated tissue glue," Lasers in surgery and medicine 2004;35(4):304-311.	<input type="checkbox"/>
	169	KLENKLER et al., "EGF-grafted PDMS surfaces in artificial cornea," Biomaterials. 2005 Dec;26(35):7286-96.	<input type="checkbox"/>
	170	LAGALI et al., "Innervation of tissue-engineered corneal implants in a porcine model: a 1-year in vivo confocal microscopy study," Invest Ophthalmol Vis Sci. 2007 Aug;48(8): 3537-3544.	<input type="checkbox"/>
	171	LAGALI et al., "Innervation of tissue-engineered recombinant human collagen-based corneal substitutes: a comparative in vivo confocal microscopy study," Invest Ophthalmol Vis Sci. 2008 Sep;49(9): 3895-902.	<input type="checkbox"/>
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/661,400
		Filing Date	September 12, 2003
		First Named Inventor	
		Art Unit	3774
		Examiner Name	Paul B. Prebille
Sheet	9	of	11
		Attorney Docket Number	026322-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	172	LATKANY et al., "Plasma surface modification of artificial corneas for optimal epithelialization," J. Biomed Mater Res 1997; 36(1):29-37.	<input type="checkbox"/>
	173	LEKSKUL et al., "CxGELSIX: a novel preparation of type VI collagen with possible use as a biomaterial," mea. 2000 Mar;19(2):194-203.	<input type="checkbox"/>
	174	Li et al., "Cellular and nerve regeneration within a biosynthetic extracellular matrix for corneal transplantation," Proc Natl Acad Sci U S A. 2003 Dec 23;100(26): 15346-15351.	<input type="checkbox"/>
	175	Li et al., "Recruitment of multiple cell lines by collagen-synthetic copolymer matrices in corneal regeneration," Biomaterials. 2005 Jun;26(16):3093-3104.	<input type="checkbox"/>
	176	LIU et al., "A simple, cross-linked collagen tissue substitute for corneal implantation," Invest Ophthalmol Vis Sci. 2006 May;47(5): 1869-1875.	<input type="checkbox"/>
	177	LIU et al., "Alginate microsphere-collagen composite hydrogel for ocular drug delivery and implantation," J Mater Sci Mater Med. 2008 Nov;19(11): 3365-3371.	<input type="checkbox"/>
	178	LIU et al., "Immunological responses in mice to full-thickness corneal grafts engineered from porcine collagen," Biomaterials 2007 Sep;28(26): 3807-3814.	<input type="checkbox"/>
	179	LIU et al., "Properties of porcine and recombinant human collagen matrices for optically clear tissue engineering applications," Biomacromolecules. 2006 Jun;7(6):1819-1828.	<input type="checkbox"/>
	180	LIU et al., "Recombinant human collagen for tissue engineered corneal substitutes," Biomaterials. 2008 Mar;29(9): 1147-1158.	<input type="checkbox"/>
	181	MATTEINI et al., "Microscopic characterization of collagen modifications induced by low-temperature diode-laser welding of corneal tissue," Lasers in surgery and medicine 2007;39(7):597-604.	<input type="checkbox"/>
	182	MAURY et al., "In-vitro development of corneal epithelial cells on a new hydrogel for epikeratoplasty," J Mater Sci Mater Med. 1997 Sep;8(9):571-576	<input type="checkbox"/>
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	183	MCDONALD, "The future direction of refractive surgery," J Refract Surg 1988; 4(5):158-168.	<input type="checkbox"/>
	184	McLaughlin et al., "Regeneration of corneal cells and nerves in an implanted collagen corneal substitute," Cornea. 2008 Jun;27(5): 580-589.	<input type="checkbox"/>
	185	MENABUONI et al., "Laser-assisted corneal welding in cataract surgery: Retrospective study," J Cataract Refract Surg. 2007 Sep;33(9):1608-1612.	<input type="checkbox"/>
	186	MERRETT et al., "Tissue-engineered recombinant human collagen-based corneal substitutes for implantation: performance of type I versus type III collagen," Invest Ophthalmol Vis Sci. 2008 Sep;49(9): 3887-3894.	<input type="checkbox"/>
	187	MOORE et al., "Fate of lyophilized xenogeneic corneal lenticules in intrastromal implantation and epikeratophakia," Invest Ophthalmol Vis Sci. 1987 Mar;28(3):555-559.	<input type="checkbox"/>
	188	NAKAMURA, "Histopathological and immunohistochemical studies of lenticules after epikeratoplasty for keratoconus," British Journal of Ophthalmology 2005;89:841-846.	<input type="checkbox"/>
	189	PIERCE Crosslinking Reagents Technical HandBook, pp. 16-23. downloaded from the Internet:<<http://http://www.piercenet.com/files/1601361Crosslink.pdf>> [(2006)].	<input type="checkbox"/>
	190	RAFAT et al., "PEG-stabilized carbodiimide crosslinked collagen-chitosan hydrogels for corneal tissue engineering," Biomaterials. 2008 Oct;29(29): 3960-3972.	<input type="checkbox"/>
	191	RAFAT et al., "Surface modification of collagen-based artificial cornea for reduced endothelialization" J Biomed Mater Res A. 2008 Mar 20. [Epub ahead of print]	<input type="checkbox"/>
	192	RICHARDS et al., "The relation of the corneal surface to the permanence of glued-on contact lenses," Can J Ophthalmol. 1971 Apr;6(2):98-103.	<input type="checkbox"/>
	193	Ruben "Adhesive keratoprosthesis," Trans Ophthalmol Soc U K. 1970;90:551-564.	<input type="checkbox"/>
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	194	SCHMITZ, 'Excimer laser "corneal shaping": a new technique for customized trephination in penetrating keratoplasty,' Graefes' Archive for Clinical and Experimental Ophthalmology, 2003 May; 241:423-431	<input type="checkbox"/>
	195	STENZEL et al., "Collagen as a biomaterial," Annu. Rev. Biophys. Bioeng. 1974; 3:231-253	<input type="checkbox"/>
	196	SUURONEN et al., "Functional innervation in tissue engineered models for in vitro study and testing purposes," Toxicol Sci. 2004 Dec;82(2):525-533.	<input type="checkbox"/>
	197	SUURONEN et al., "Innervated human corneal equivalents as in vitro models for nerve-target cell interactions," The FASEB Journal. 2004;18:170-172.	<input type="checkbox"/>
	198	SUURONEN et al., "Tissue-engineered injectable collagen-based matrices for improved cell delivery and vascularization of ischemic tissue using CD133+ progenitors expanded from the peripheral blood," Circulation. 2006 Jul 4;114(1 Suppl):1138-44	<input type="checkbox"/>
	199	SWEENEY et al., "A synthetic polymer as a corneal <u>onlay</u> ," [ARVO Abstract] Invest Ophthalmol Vis Sci 40(4),S638Abstract nr 3361. [(1999).]	<input type="checkbox"/>
	200	TRINKAUS-RANDALL et al. "Implantation of a synthetic cornea: design, development and biological response," Artif Organs. 1997 Nov;21(11):1185-1191.	<input type="checkbox"/>
	201	VASCOTTO et al., "Localization of candidate stem and progenitor cell markers within the human cornea, limbus, and bulbar conjunctiva in vivo and in cell culture," Anat Rec A Discov Mol Cell Evol Biol. 2006 Aug;288(8):921-931.	<input type="checkbox"/>
	202	VINCIGUERRA et al., "Butterfly laser epithelial keratomileusis for myopia," Journal of refractive surgery 2002;18(3 Suppl):S371-3.	<input type="checkbox"/>
	203	U.S. Patent Application 60/715411, filed 09-09-2005.	<input type="checkbox"/>

Examiner Signature	/Paul Prebillec/	Date Considered	04/02/2009
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